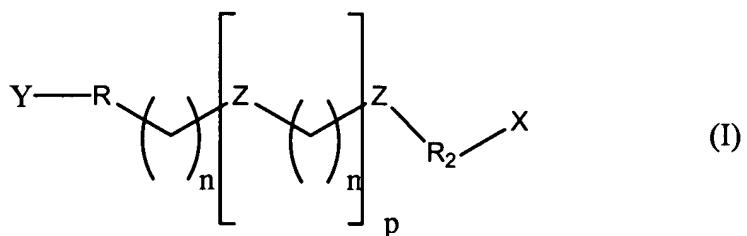


ABSTRACT

Linker arms for nanocrystal compounds and nanocrystals compounds of the following formula:



n & p = 0-10
Z = O, CH₂, or NH

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wherein Y represents the attachment point to the nanocrystal and X represents the attachment point of an organic compound. R is a bond or is selected from the group consisting of: SH, O(CH_{2(n)}O)_nSH, NH(CH_{2(n)}O)_nSH, NH(CH_{2(n)}NH)SH, S(CH_{2(n)}O)_nSH, and S(CH_{2(n)}S)SH. n is

10 1-10, with S being attached to the nanocrystal. R₂ is a bond or selected from the group consisting of carbonyl, NH, S, CONH, COO, S, C₁₋₁₀ alkyl, carbamate, and thiocarbamate. When n and p are 1 or more, the resulting carbon or carbon chain may be substituted. Preferably, z is O. Preferably n and p are 1-5.

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